AIR FORCE INSTITUTE
FOR ADVANCED
DISTRIBUTED LEARNING

Enhancing Your CDCs with Multimedia (MM)

The IT Team
Curriculum Division
June 2000

Overview

- CDCs with MM
- To Choose or Not To Choose MM
- Follow the *ICW Guide*
- Choose a Hybrid Approach
- Design Tips
- The Road Ahead

Acronyms & Abbreviations You Need to Know

Abbreviations

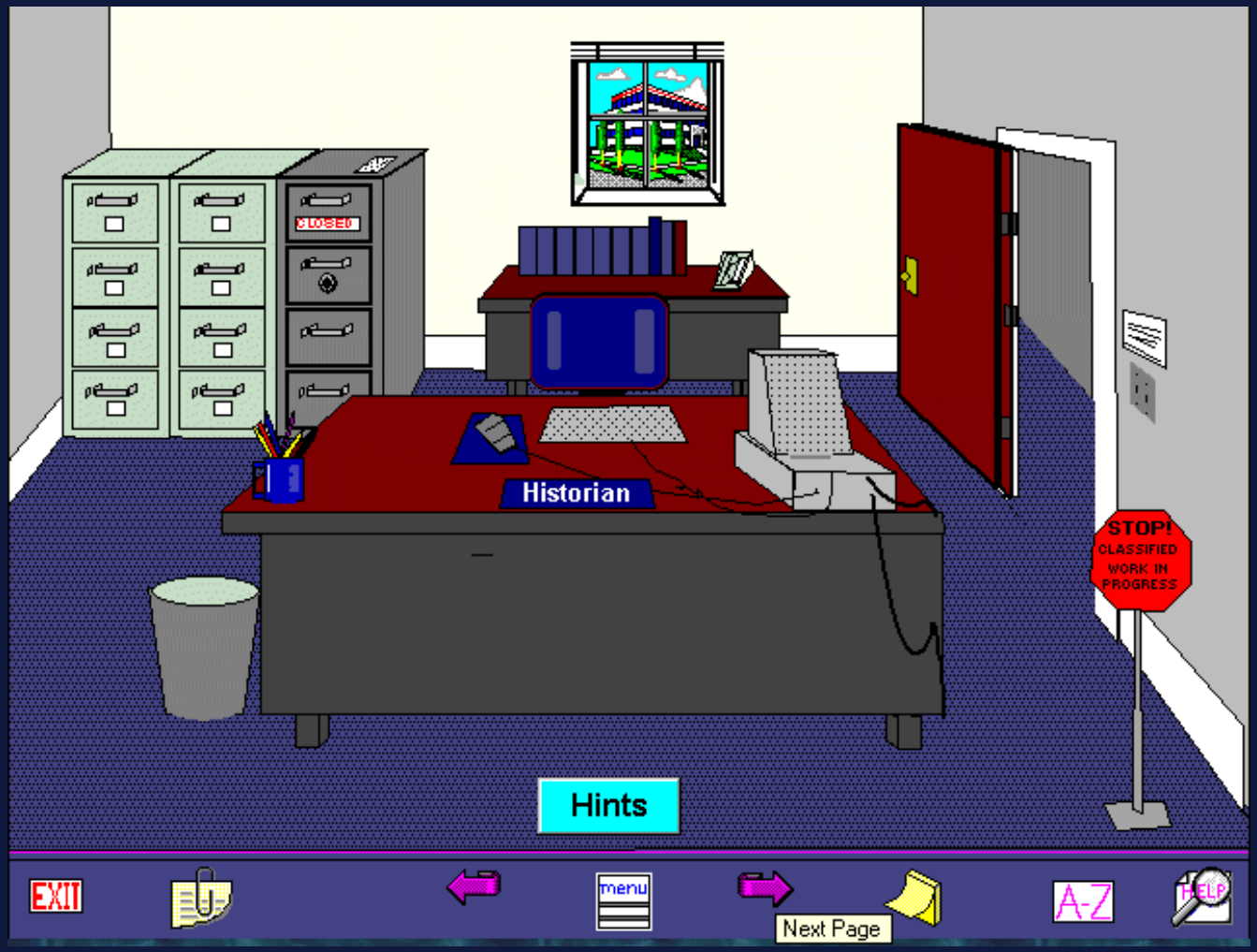
- ADL Advanced Distributed Learning
- CBI Computer-based instruction
- DHTML Dynamic hypertext mark-up language
- HTML Hypertext mark-up language
- IBI Internet-based instruction

Abbreviations

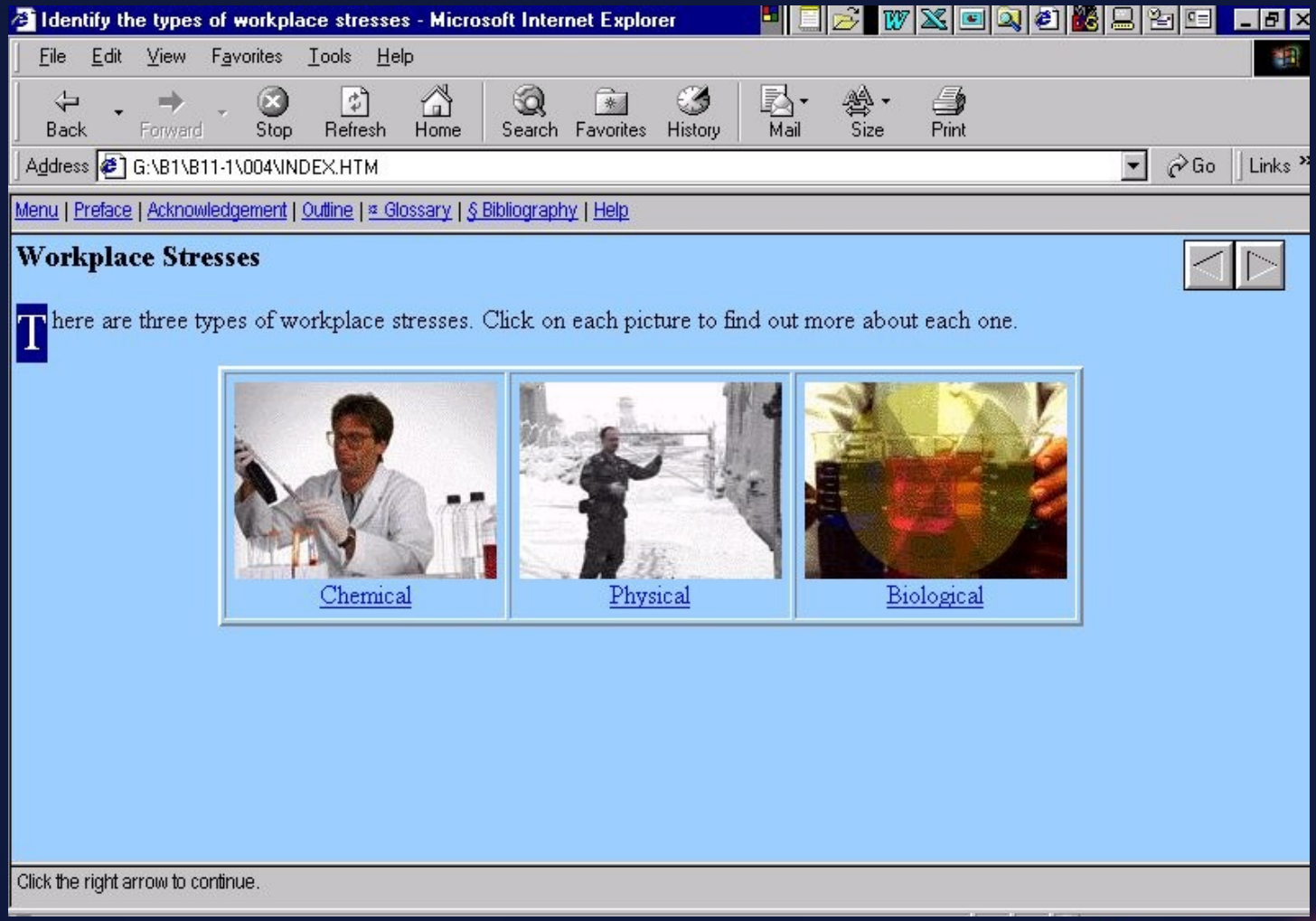
- ICW Interactive courseware
- IMI Interactive multimedia instruction
- MM Multimedia
- SCORM Shareable Courseware Object Reference Model

Active CDCs with Multimedia

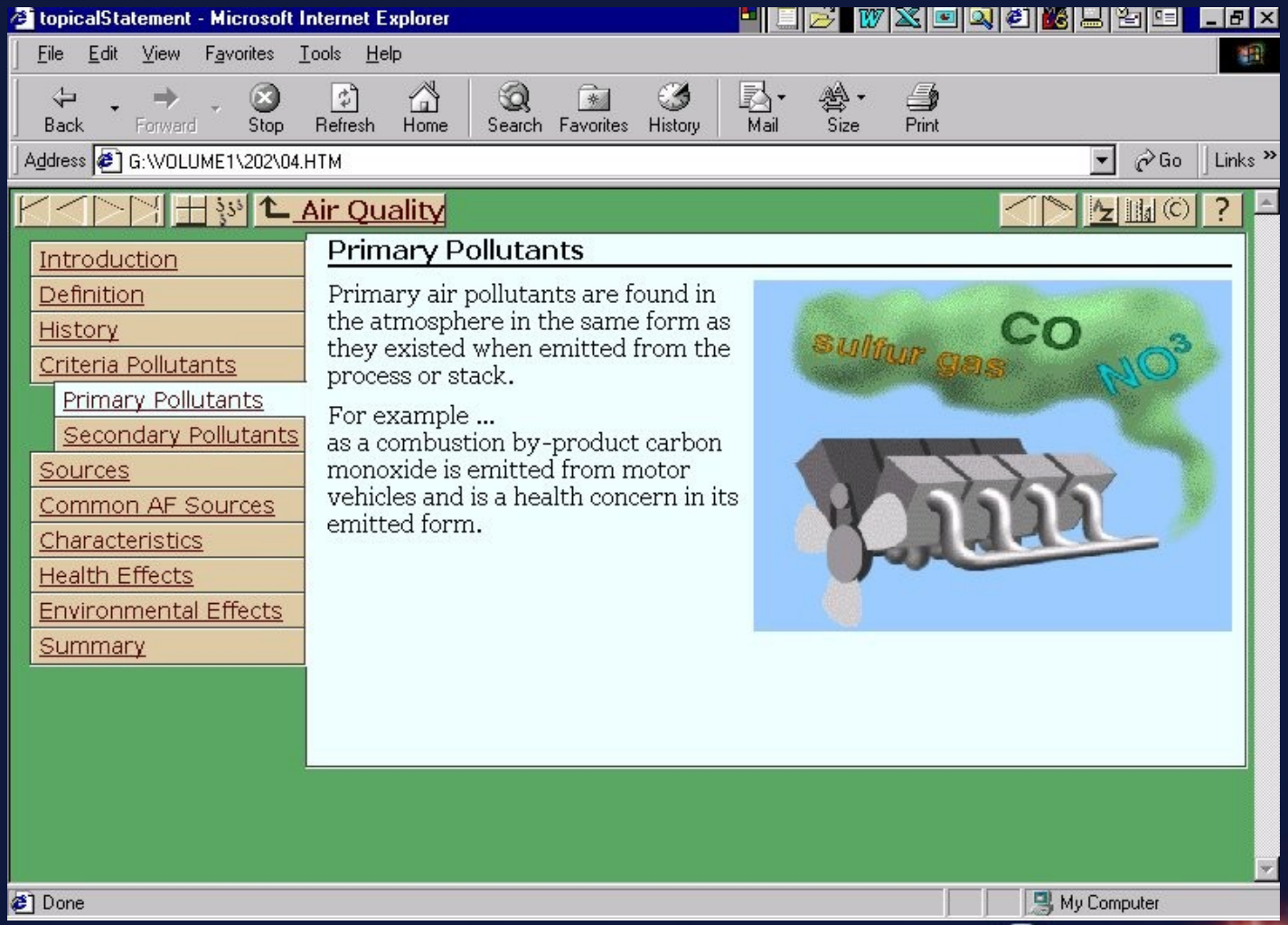
ACTIVE CDC: Historian (3H051M)



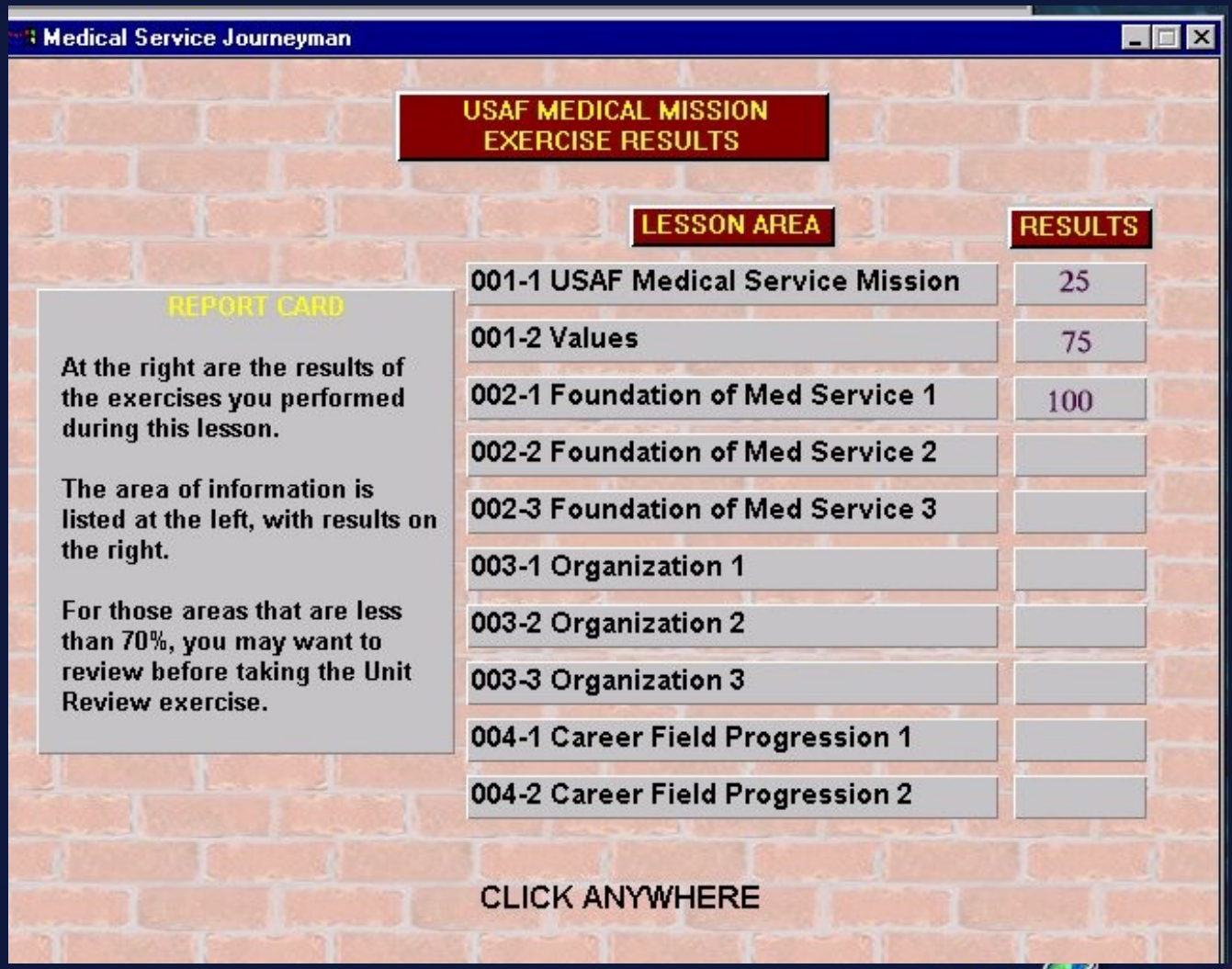
ACTIVE CDC: BEE-N (4B051N)


Identify the types of workplace stresses - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Size Print
Address G:\B1\B11-1\004\INDEX.HTM
Go Links
Menu | Preface | Acknowledgement | Outline | Glossary | Bibliography | Help
Workplace Stresses
There are three types of workplace stresses. Click on each picture to find out more about each one.
Chemical
Physical
Biological
Click the right arrow to continue.

ACTIVE CDC: BEE-O (4B051O)



ACTIVE CDC: Medical Services


Medical Service Journeyman
USAF MEDICAL MISSION EXERCISE RESULTS
LESSON AREA
RESULTS
001-1 USAF Medical Service Mission
25
001-2 Values
75
002-1 Foundation of Med Service 1
100
002-2 Foundation of Med Service 2
002-3 Foundation of Med Service 3
003-1 Organization 1
003-2 Organization 2
003-3 Organization 3
004-1 Career Field Progression 1
004-2 Career Field Progression 2
REPORT CARD
At the right are the results of the exercises you performed during this lesson.
The area of information is listed at the left, with results on the right.
For those areas that are less than 70%, you may want to review before taking the Unit Review exercise.
CLICK ANYWHERE

CDCs With MM Under Production

- 1T051 Survival
- 2Es Comm/Electronic Systems
- 2F071S Fuels
- 3Es Civil Engineering

CDCs With MM Under Production

- 3S171 Military Equal Opportunity
- 47203S HazMat
- 6C051A Contracting

To Choose or Not To Choose Multimedia

Why Choose MM?

- Your students need more drill & practice
- Your course contains complex subjects
  that are difficult and/or lengthy to teach
  using print medium
- Your course contains complicated operation, maintenance, or trouble-shooting procedures

Benefits of IMI

- Reaches higher level of learning
- Motivates learners

Reasons NOT to Choose MM

- Your career field or CFM wants it
- Your career field needs a revision NOW
- Reading from a computer screen is slower than reading from paper
- It’s new, exciting, different

Challenges of IMI

- Takes a team to develop
- Labor intensive, sizeable up-front costs
- Loss of portability
- Web delivery

Guidelines

Follow Guidelines in *ICW Guide*

- Ask team lead for a preliminary media analysis
- Search DITIS
- Survey your students
- Identify required resources
- Contact your nearest IT Element
- Get buy-in from your CFM

Use the HYBRID Approach

What is a hybrid?

A course that uses both MM and paper elements

The Secret. . .

- Use MM *only* where appropriate
- Keep paper for everything else
  - To avoid transferring printing costs
  - To support WAPS, Guard, and Reserve

Procedure

- Submit Course Chart noting where MM will be used
- Indicate in paper CDC when to go to CD-ROM
- Send paper portion as usual
- Send only ICW to ATTN: IT team
  - May be sent separately (no later than terminal volume)
  - Allow time for review/edit

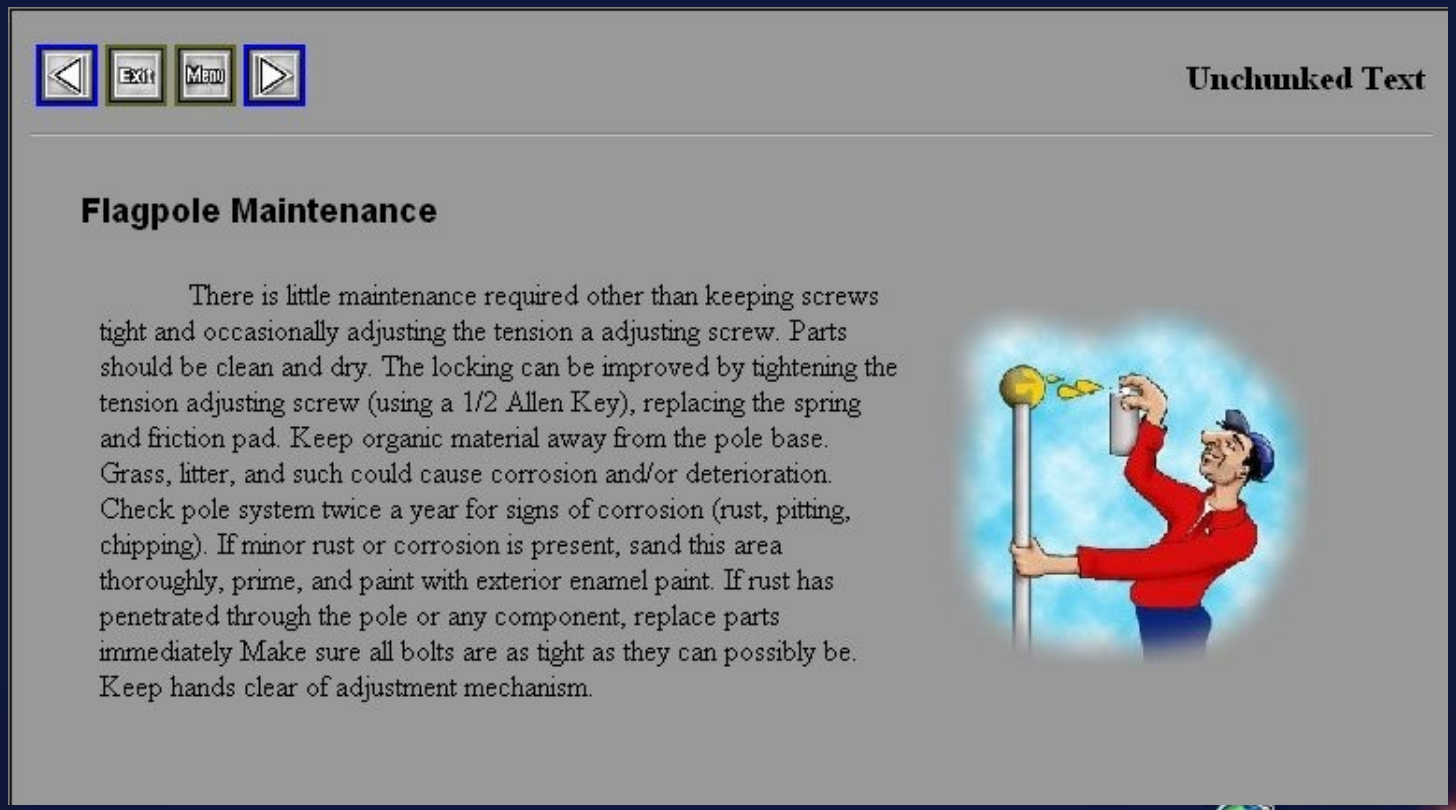
Design & Development Tips

Design and Development Tips

- Don’t try to do it all yourself
  - Task your IT Element in writing
  - Ask about contractor help
- Allow plenty of time (250 dev. hrs. for 1 hr. of instruction)
- Make it interactive!
- Plan for CD-ROM delivery for now

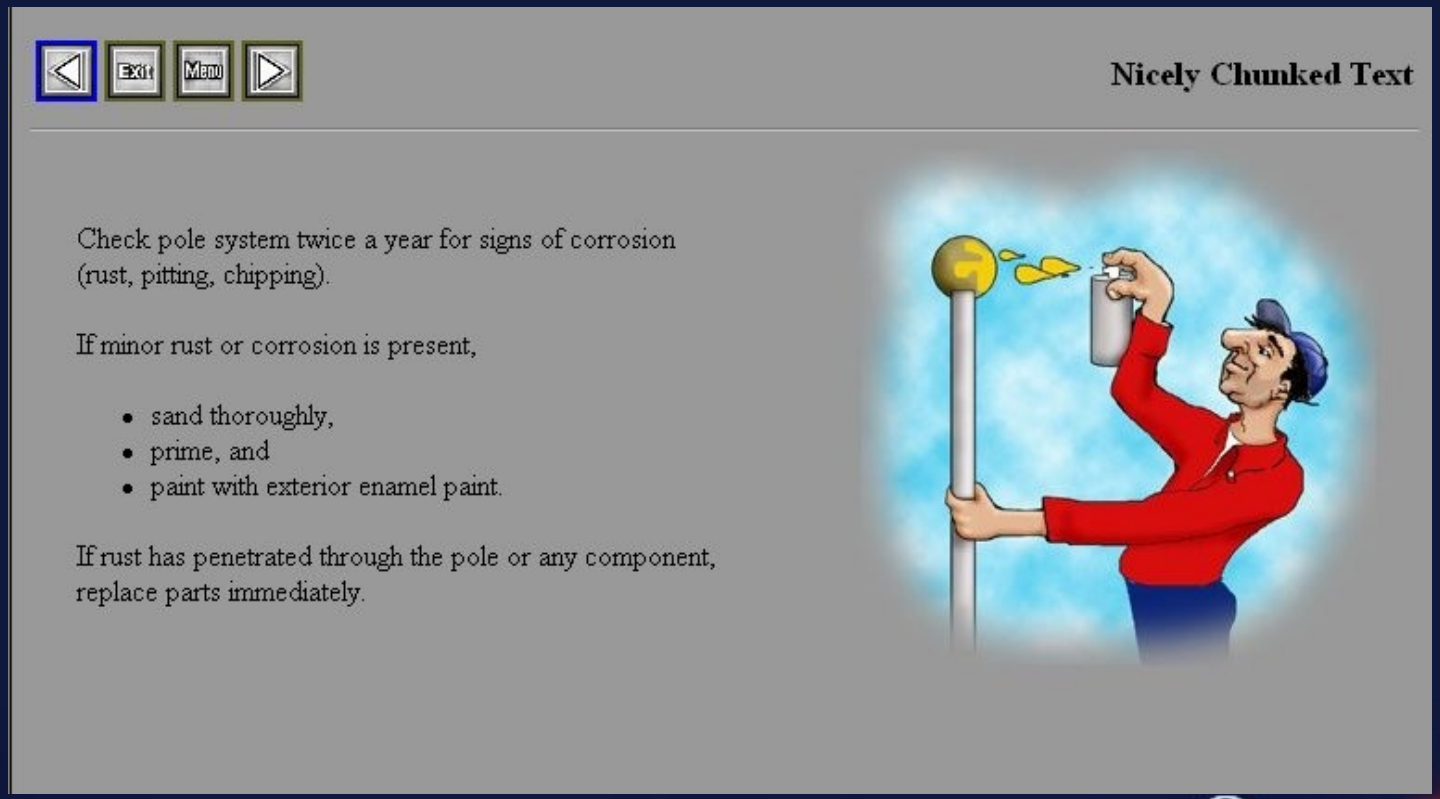
Design & Development Tips: Use Chunking Techniques

- Unchunked


Exit
Menu
Unchunked Text
Flagpole Maintenance
There is little maintenance required other than keeping screws tight and occasionally adjusting the tension a adjusting screw. Parts should be clean and dry. The locking can be improved by tightening the tension adjusting screw (using a 1/2 Allen Key), replacing the spring and friction pad. Keep organic material away from the pole base. Grass, litter, and such could cause corrosion and/or deterioration. Check pole system twice a year for signs of corrosion (rust, pitting, chipping). If minor rust or corrosion is present, sand this area thoroughly, prime, and paint with exterior enamel paint. If rust has penetrated through the pole or any component, replace parts immediately Make sure all bolts are as tight as they can possibly be. Keep hands clear of adjustment mechanism.

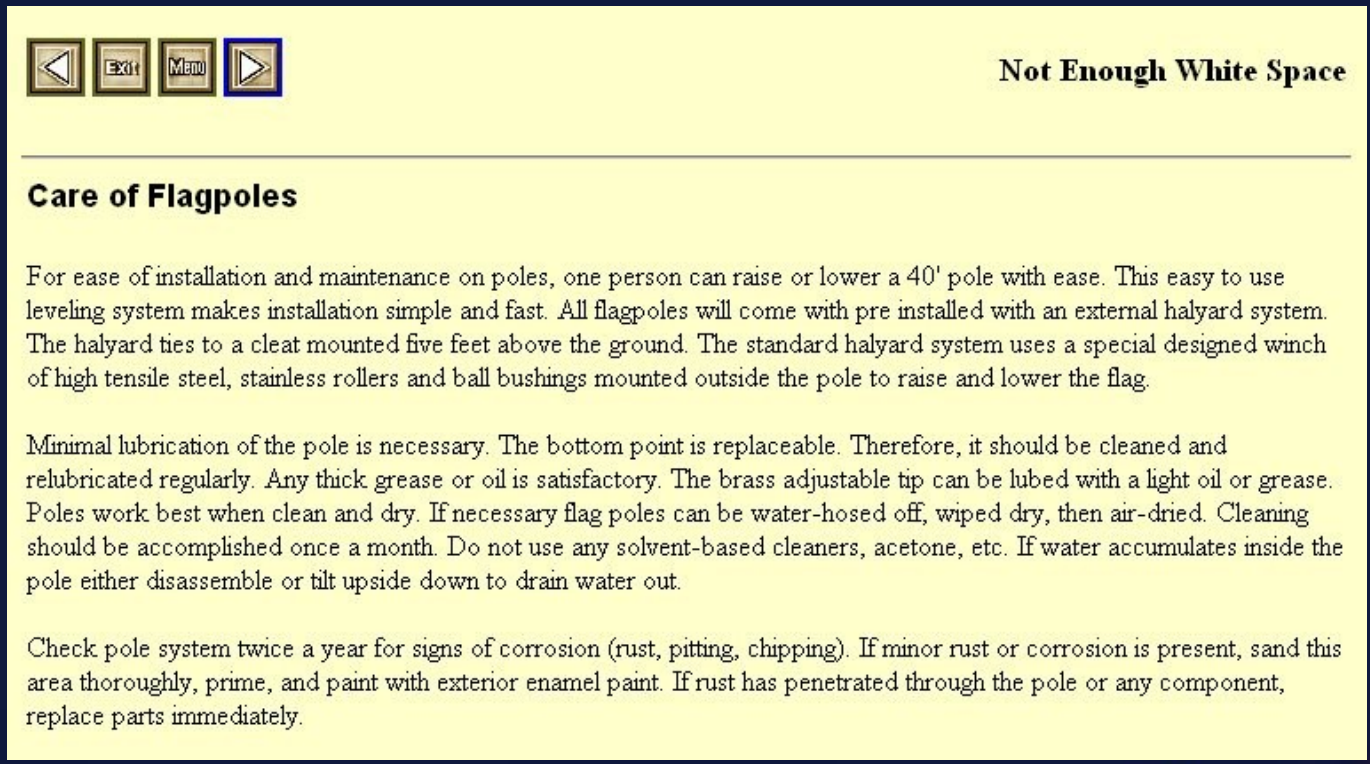
Design & Development Tips: Use Chunking Techniques

- **Chunked**


Exit
Menu
Nicely Chunked Text
Check pole system twice a year for signs of corrosion (rust, pitting, chipping).
If minor rust or corrosion is present,
sand thoroughly,
prime, and
paint with exterior enamel paint.
If rust has penetrated through the pole or any component, replace parts immediately.

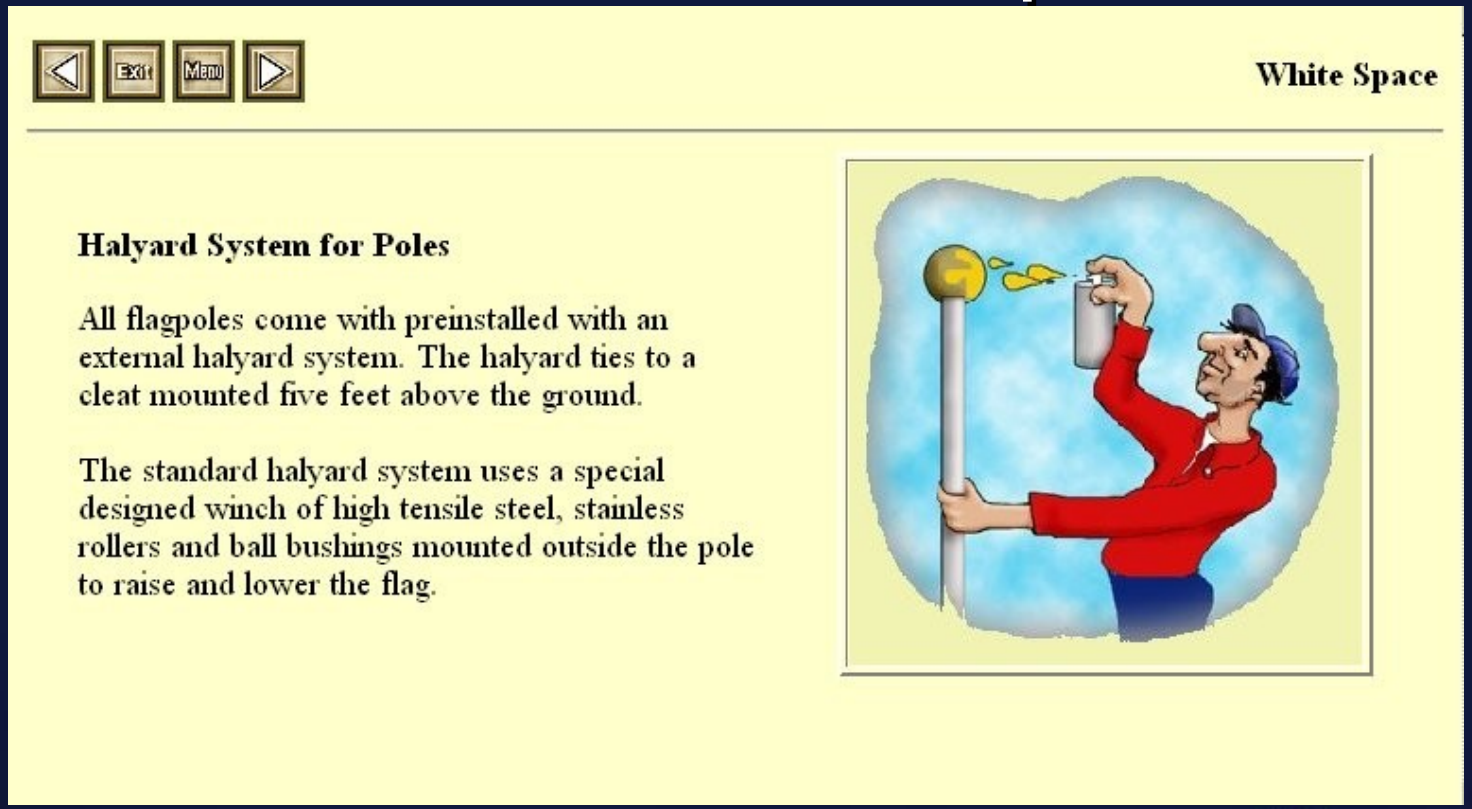
Design & Development Tips: Use of White Space

- Not enough white space


Exit
Menu
Not Enough White Space
Care of Flagpoles
For ease of installation and maintenance on poles, one person can raise or lower a 40' pole with ease. This easy to use leveling system makes installation simple and fast. All flagpoles will come with pre installed with an external halyard system. The halyard ties to a cleat mounted five feet above the ground. The standard halyard system uses a special designed winch of high tensile steel, stainless rollers and ball bushings mounted outside the pole to raise and lower the flag.
Minimal lubrication of the pole is necessary. The bottom point is replaceable. Therefore, it should be cleaned and relubricated regularly. Any thick grease or oil is satisfactory. The brass adjustable tip can be lubed with a light oil or grease. Poles work best when clean and dry. If necessary flag poles can be water-hosed off, wiped dry, then air-dried. Cleaning should be accomplished once a month. Do not use any solvent-based cleaners, acetone, etc. If water accumulates inside the pole either disassemble or tilt upside down to drain water out.
Check pole system twice a year for signs of corrosion (rust, pitting, chipping). If minor rust or corrosion is present, sand this area thoroughly, prime, and paint with exterior enamel paint. If rust has penetrated through the pole or any component, replace parts immediately.

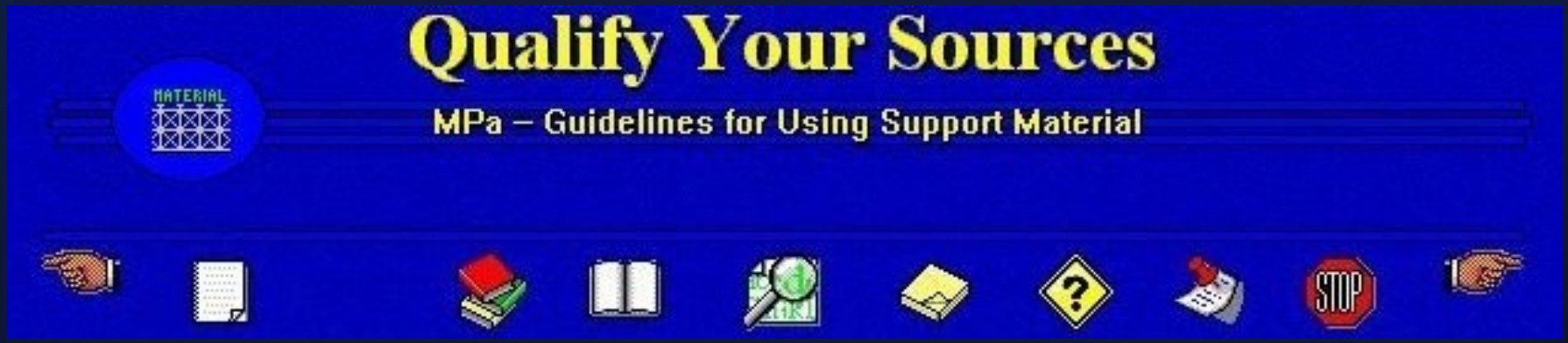
Design & Development Tips: Use White Space

- Better use of white space

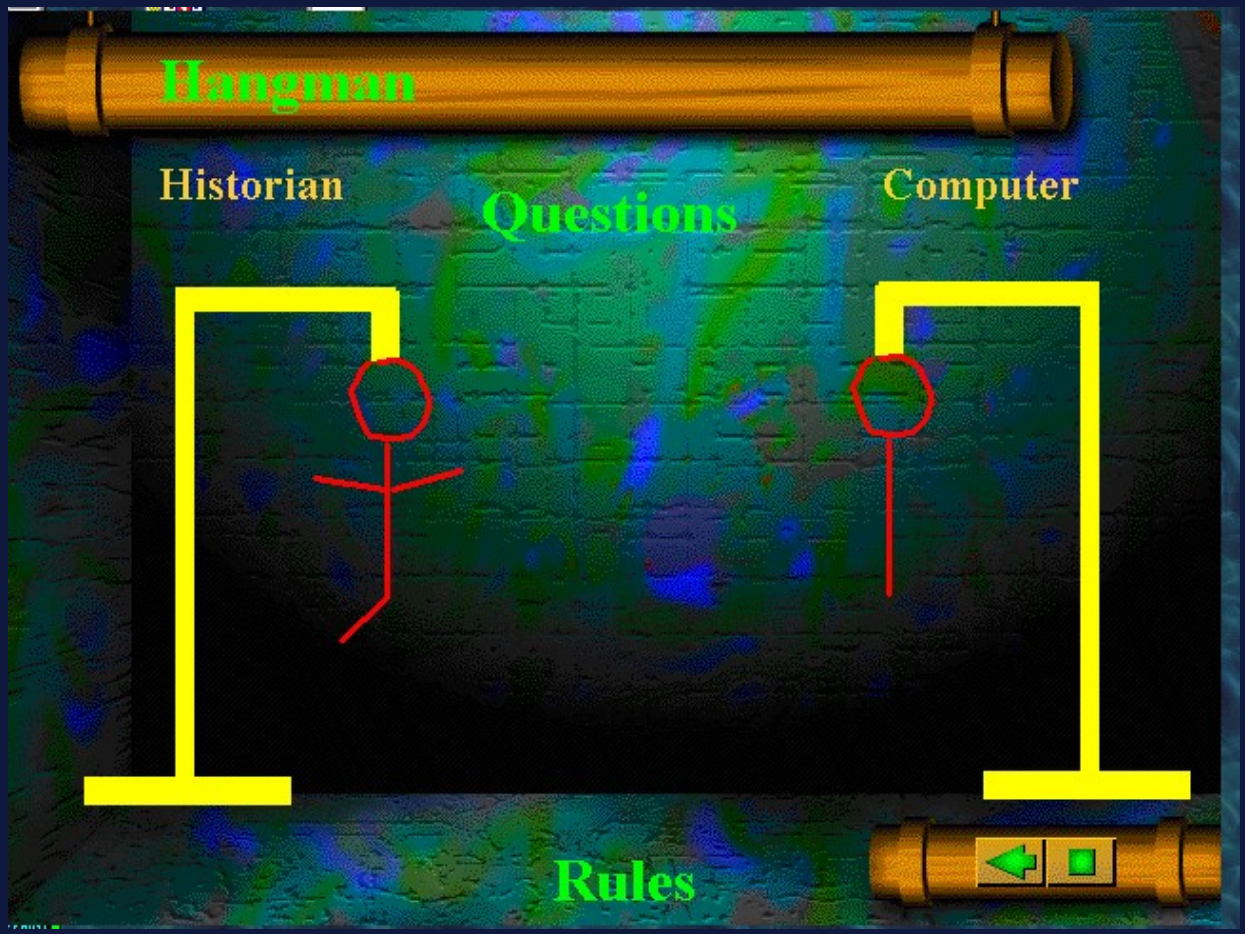

Exit
Menu
White Space
Halyard System for Poles
All flagpoles come with preinstalled with an external halyard system. The halyard ties to a cleat mounted five feet above the ground.
The standard halyard system uses a special designed winch of high tensile steel, stainless rollers and ball bushings mounted outside the pole to raise and lower the flag.

Design & Development Tips: Navigation Buttons

- Too many



Use Gaming Techniques



Use Scenarios

Design & Development: Some Final Thoughts

The Good, The Bad. . .

- Good
  - Chunking, good use of color & white space, easy navigation
  - Good level of interaction (like games)
- Bad
  - Audio: reads text on screen
  - Inconsistent or unintuitive navigation icons

. . .The Ugly

- Ugly
  - Student not in control of navigation
  - Major inconsistencies
  - Mirrors a paper CDC

IT Team Evaluation Areas

- Course Design
  - Directions Clear and simple
  - Clarity Easy to understand
  - Efficiency & learn Easy to navigate

IT Team Evaluation Areas

- Appearance
  - Clean and uncluttered
- Programming
  - Links and functions work
- SCORM/ADL-readiness
  - reusable, accessible, & interoperable

As for The Road Ahead. . .

It Will Be Well Traveled With:

- Continued use of print media
- Continued use of satellite
- Increased delivery of hybrid courses
- Electronic testing
- Web delivery

POCs & Useful Web Pages

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- POC for
  - Emerging technologies
  - ADL infrastructure
  - SCORM

URLs

- AFIADL homepage
  http://www. maxwell.af.mil/au/afiadl
- ICW Guide
  http://www.maxwell.af.mil/au/afiadl/curriculum/icwguide/unit_fr.htm
- ADL/SCORM info
  http:// www.adlnet.org
  http:// www.disa.mil

Any Questions or Comments?